

# HYBRID INVERTER



ASG-(3.6-6)SL-ZH

ASG-(5-12)TL-ZH

## KEY FEATURES



String current up to 16A



Wide range of MPPT voltage



Remote diagnosis & update



<10ms UPS-level switching



24-hour intelligent energy management



Easy setting of smart working modes

ASG-3.6SL-ZH ASG-4SL-ZH ASG-4.6SL-ZH ASG-5SL-ZH ASG-6SL-ZH ASG-5TL-ZH ASG-6TL-ZH ASG-8TL-ZH ASG-10TL-ZH ASG-12TL-ZH

Input DC		ASG-3.6SL-ZH		ASG-4SL-ZH		ASG-4.6SL-ZH		ASG-5SL-ZH		ASG-6SL-ZH		ASG-5TL-ZH		ASG-6TL-ZH		ASG-8TL-ZH		ASG-10TL-ZH		ASG-12TL-ZH	
Max. input voltage	550V											1000V									
Rated voltage	360V											600V									
MPPT voltage range	90-520V											200-900V									
Max. input current	16A/16A											16A/16A		26A/26A							
Max. short circuit current	20A/20A											20A/20A		32A/32A							
MPPT number	2											2		2							
Max. input strings number	2											2		4							
Input Battery												Li-ion		Li-ion							
Battery type	Li-ion											Li-ion		Li-ion							
Battery voltage range	80V-480V											200V-800V		200V-800V							
Max. charge / discharge current	30A/30A											30A/30A		30A/30A							
Communication	CAN/RS485											CAN/RS485		CAN/RS485							
Charging strategy for Li-Ion battery	Self-adaption to BMS											Self-adaption to BMS		Self-adaption to BMS							
Output AC (Grid side)		3.6kW		4kW		4.6kW		5kW		6kW		5kW		6kW		8kW		10kW		12kW	
Rated output power		3.6kW		4kW		4.6kW		5kW		6kW		5kW		6kW		8kW		10kW		12kW	
Max. apparent output power		3.96kVA		4.4kVA		4.96kVA		5.5kVA		6.6kVA		5kVA		6kVA		8kVA		10kVA		12kVA	
Rated grid voltage		220 V / 230 V										3/N/PE,380V/400V									
Rated grid frequency		50Hz/60Hz										50Hz/60Hz									
Max. output current		17.2A		19.1A		22A		23.9A		28.7A		7.2A		8.7A		11.5A		14.4A		17.3A	
Power Factor												>0.99 (0.8 leading - 0.8 lagging)									
THDi												< 3%									
Input AC (Grid side)		4.8kW		5.3kW		6.2kW		6.7kW		8kW		10kW		12kW		16kW		20kW		24kW	
Max. input power		4.8kW		5.3kW		6.2kW		6.7kW		8kW		10kW		12kW		16kW		20kW		24kW	
Max. input current		21A		23A		26.8A		29.1A		34.8A		14.4A		17.3A		23.1A		28.9A		34.6A	
Rated input voltage		1/N/PE, 220 V / 230 V										3/N/PE,380V/400V									
Rated input frequency		50Hz/60Hz										50Hz/60Hz									
Output AC (Back-up)		3.6kW		4kW		4.6kW		5kW		6kW		5kW		6kW		8kW		10kW		12kW	
Rated output power		3.6kW		4kW		4.6kW		5kW		6kW		5kW		6kW		8kW		10kW		12kW	
Max. output current		15.6A		17.4A		20A		21.7A		26A		7.2A		8.7A		11.5A		14.4A		17.3A	
Back-up switch time		< 10ms										< 10ms									
Rated output voltage		220V/230V										380V/400V									
Rated frequency		50 Hz / 60 Hz										50Hz/60Hz									
THDv		< 2%										< 2%									
Efficiency												97.4%		97.34%							
Max. efficiency												97.4%		97.34%							
EU efficiency												96.5%		96.45%							
BAT charged/ discharged to AC Max. efficiency												97.6%		97.35%							
Protection												Yes		Yes							
Integrated DC switch												Yes		Yes							
DC rever-polarity protection												Yes		Yes							
Anti-islanding protection												Yes		Yes							
Short circuit protection												Yes		Yes							
Output over current protection												Yes		Yes							
DC Surge protection												Type II		Type II							
AC Surge protection												Type II		Type II							
Insulation impedance detection												Yes		Yes							
Ground fault monitoring												Yes		Yes							
Residual leakage current detection												Yes		Yes							
Temperature protection												Yes		Yes							
Battery reverse protection												Yes		Yes							
AC Over voltage protection												Yes		Yes							
DC Over current protection												Yes		Yes							
I/V Curve scanning												Optional		Optional							
24-hour load monitoring												Optional		Optional							
Integrated AFCI (DC arc-fault circuit protection)												Optional		Optional							
Antibackflow												Optional		Optional							
LVRT												Optional		Optional							
General Data												455*462*214mm		540*420*218mm							
Dimensions (W*H*D)												455*462*214mm		540*420*218mm							
Weight												19kg		31.5kg							
Battery standby consumption (night)												≤13W		≤20W							
Operating temperature range												-30...+60°C		-30...+60°C							
Cooling concept												Natural Cooling		Natural Cooling							
Max. operation altitude												4000m (Derating above 3000m)		4000m (Derating above 3000m)							
Relative humidity												0-100%		0-100%							
Ingress protection												IP66		IP66							
Topology structure												Transformerless		Transformerless							
Grid connection standard												EN 50549-1, IEC 61727, IEC 62116, IEC 61683, UNE 217001/2, NTS-631, PSE, PTPiREE, NC RfG		EN 50549-1, IEC 61727, IEC 62116, IEC 61683, UNE 217001/2, NTS-631, PSE, PTPiREE, NC RfG							
Safety/EMC standard												IEC/EN 62109-1/2, IEC/EN 62477-1, EN IEC61000-6-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12		IEC/EN 62109-1/2, IEC/EN 62477-1, EN IEC61000-6-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12							
Type of DC terminal												MC4 connector		MC4 connector							
Type of AC terminal												Quick connection plug		Quick connection plug							
Battery connection type												Quick connection plug		Quick connection plug							
Type of AC terminal (Back-up)												Quick connection plug		Quick connection plug							
Type of AC terminal (Grid side)												Quick connection plug		Quick connection plug							
Display&Communication												LED+Bluetooth+APP		LCD+LED+Bluetooth+APP							
Display												LED+Bluetooth+APP		LCD+LED+Bluetooth+APP							
Communication Interface												RS485, Optional: WIFI, 4G		RS485, Optional: WIFI, 4G							

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